

Title (en)

Method and apparatus for determining the abrasiveness of fluids, method of monitoring bearing wear using such method, and machine incorporating such apparatus.

Title (de)

Verfahren und Vorrichtung zur Bestimmung der Abriebeigenschaften von Fluiden, dieses Verfahren verwendende Methode zur Kontrolle der Abnutzung von Lagern und mit dieser Vorrichtung ausgestattete Maschine.

Title (fr)

Procédé et dispositif de détermination du pouvoir abrasif de fluides, procédé de contrôle de l'usure de roulements utilisant un tel procédé et machine équipée d'un tel dispositif.

Publication

**EP 0016639 A1 19801001 (EN)**

Application

**EP 80300846 A 19800319**

Priority

GB 7909953 A 19790321

Abstract (en)

[origin: US4305278A] Abrasion testing, and hence particle content of fluids including liquids and gases is carried out by abrading a thin film 25 of an electrical conductor with the fluid, and measuring the resulting change in electrical resistance of the film. The method can be used to monitor metal particles in oil, and hence the state of wear of oil-lubricated metal parts, and the level of particulate pollution in the atmosphere.

IPC 1-7

**G01N 3/56**; **G01N 27/04**

IPC 8 full level

**G01N 3/56** (2006.01); **G01N 27/04** (2006.01)

CPC (source: EP US)

**G01N 3/567** (2013.01 - EP US)

Citation (search report)

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- REVIEW OF SCIENTIFIC INSTRUMENTS, Vol. 42, No. 6, June 1971, page 892 New York, U.S.A. B.N. TURMAN: "A simple device for monitoring erosion by a stream of particles" \* Page 892, left-hand column, lines 1-20 \*

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